

ABSTRACT

1 A digital video camera system may utilize a joint video and still image pipeline
2 that simultaneously acquires, processes, transmits and/or stores digital video and high
3 resolution digital still image photographs. The joint pipeline may include a video pipeline
4 optimized for digital video frames and a high resolution still image pipeline optimized for
5 high resolution digital still image frames. The digital video camera system may also
6 concurrently acquire and process video frames and high resolution still image frames in
7 burst mode by downsampling the video frames into reduced size video frames so that the
8 single processing pipeline can allot more time to process the high resolution still image
9 frames in real time. The loss in video quality may be compensated using motion
10 estimation and information from the high resolution still image frames.